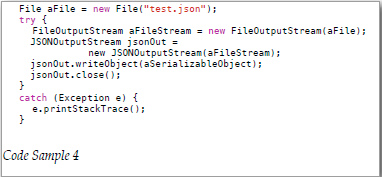
**JSON & File I/O**

**Summary:** QCJSON is used to serialize data. This means that data is turned into 1’s and 0’s in order to be sent over a stream. In this case, the data is sent to a File through a FileOutputStream, but it can also be used to send data of a socket using JSONInputStream and JSONOutputStream. This is a simple test used to write basketball player information to various files.

Code from Internet: I found this code sample from Bro. Barney’s book *Real Life Java* on page 39. It briefly explains how to write data to a file using a JSON stream:

**My Sample Code:** In this sample code, I use 3 classes to write data to files. The FileIO.java class is what actually writes the data; the JSON.java class collects data and then sends it to the FileIO class (this is supposed to simulate having a menu where the user inputs data). The PlayerBean.java class is a Java Bean used to collect various pieces of information about a player; the bean as a whole is then written out to a file with the player’s name as the name of the file. This sample code also shows how to read data from a file then present it to the console. It uses Java Collections to store data in HashMaps before writing it to a file, then reads the HashMap from the file. The code can be found here: <https://github.com/Lundberg-Jonathan/JSON/tree/master/src/json>

**Sharing Video:** <https://www.youtube.com/watch?v=rvwZLn6hAtg>

**Group Meeting Teaching:** <https://youtu.be/P21CvG6x74Q?t=9m24s> (ends at 10:50)